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By Dr. Joseph Mercola

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Story at a glance:

- Testing by Consumer Reports found one-third of chocolate products tested were high in heavy metals, and the percentage of contaminated products was even higher among dark chocolates
- Of the 28 dark chocolates bars tested in 2022, only five had levels below 100% of the maximum allowable dose and only two had levels below 50%. In the 48 products tested in 2015, they found detectable levels in every product, and 100% of the maximum allowed dose of lead in Perugina 85% premium dark chocolate bar
- Chocolate is now the only source of heavy metal exposure in industrialized nations, so it's important to be aware of your overall intake. Chocolate can be absorbed from the soil and in the water used to grow cocoa and vegetables
- Exposure to lead and cadmium poses the highest risk to the brains and neurological systems of children, and even low levels of exposure during pregnancy can have serious health consequences. Lead exposure has been linked to miscarriages, including increased mortality from heart and kidney disease and cancer
- Dark chocolate has many health benefits, but your source should be chosen with care. Consumer Reports found that the best dark chocolate products tested for heavy metal delays to primarily contain cocoa

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Exposure to lead and cadmium poses the highest risk to the brains and neurological systems of children, and even low levels of exposure during pregnancy can have serious health consequences, including increased mortality from heart and kidney disease and cancer.

Dark chocolate has many health benefits, but your source should be chosen with care. Consumer Reports found that the best dark chocolate products tested for heavy metal delays to primarily contain cocoa.

However, wide usage has raised concerns over the health effects heavy metals can have on your brain and nervous system.

Lead, chromium, cadmium, arsenic and mercury are among the metals identified as having public health significance since they are known to trigger organ damage even at low levels of exposure. These same heavy metals are also known as "poisons" or "probable human carcinogens."

According to the Occupational Safety and Health Administration, heavy metals can enter the body through inhalation, ingestion or skin absorption. Once in the bloodstream,the chemicals are rapidly distributed. Cadmium is an extremely toxic metal used in industrial workplaces.

Several studies have attributed its acute exposure in workers who unexpectedly used cadmium-containing alloys.

However, lead is one of the most prevalent environmental pollutants in industrialized nations. It's found in gasoline, water pipes, lead paint, some types of pottery and most other operations involving it.

Other heavy metals identified as toxic include arsenic, mercury, hexavalent chromium and mercury.

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Several types of chocolate high in lead and cadmium

Consumer Reports tested a variety of chocolate candies and powders, including dark chocolate bars, milk chocolate chips, cocoa powder and brownies, cake and hot chocolate mixes.

This was a follow-up from testing in 2022 on dark chocolate, in which they tested 28 bars from different companies for lead and cadmium.

In the 2022 and 2023 tests, researchers used California's maximum allowable dose level for heavy metal intake as a benchmark. California has established the federal limits for lead or cadmium in food and the researchers believed that California's standards are currently the most protective available.

The California standards limit consumption to 0.5 micrograms per day of lead and 4.1 micrograms per day of cadmium.

Consumer Reports notes that the tests were not an assessment of whether a particular chocolate exceeded California's legal standards, but the California standards were used to indicate products that had a comparatively higher level of heavy metals.

Of the 28 dark chocolate bars tested in 2022 for lead and cadmium, only five had levels that were below 100% of the maximum allowable dose for lead and cadmium assuming a 1-ounce serving size.

There were eight that were high in cadmium, 10 that were high in lead and five that were high and lead and cadmium.

There are two main components in chocolate from the cocoa bean. These are cocoa solids and cocoa butter, which together are called cacao or cocoa.

Dark chocolate tends to be higher in heavy metal contamination than milk chocolate because it has a higher cacao content, which is more likely to be contaminated with cadmium and lead.

In 2023, Consumer Reports sought to determine whether other cacao containing foods had the same risk. They purchased 72 cocoa powders and hot cocoa mixes from seven categories and added several dark chocolate bars to confirm their previous results.

They used products from name brands like Nestle, Ghirardelli and Hershey's and bought them from national retailers like Whole Foods, Target, Costco and Trader Joe's.

As in the previous tests, the dark chocolates had higher levels of heavy metal than the milk chocolate.

However, James E. Rogers, Ph.D., director and acting head of product safety testing also noted that every product had detectable amounts of lead and cadmium and it had concerning levels of at least one metal, and in most cases, more than twice the limit.

The results of the testing revealed high levels of lead and cadmium in several of the dark chocolate bars, including 130% of the maximum allowed dose of lead in Perugina Dark Dark Chocolate Premium 85%.

None of the milk chocolate bars were over 100% of the levels for lead or cadmium and all of the cocoa powders tested were over 100% of the allowed levels for lead.

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Heavy metal can accumulate from several sources

As Consumer Reports noted, high levels of cadmium got into the chocolate as the cocoa plants absorbed it from the soil, which can be absorbed from the water they farmed as they dry outdoors.

However, chocolate is not the only food or beverage that contains heavy metals and since the metals are bioaccumulative, it's important to be aware of your overall intake.

A 2021 study published in Scientific Reports also evaluated the presence of cadmium and lead in a selected number of fruits and vegetables.

The foods evaluated were fresh, frozen, dried or processed. The study evaluated 28,800 samples in a variety including apples, pears, grapes, strawberries, carrots and tomatoes.

The tests show that the concentration of cadmium and lead was present in all types of fruits and vegetables, but the amount varied substantially. The highest concentrations were found in dried products, and several samples exceeded the maximum permissible concentrations.

Another 2022 analysis looked at major food groups for the presence of cadmium, lead, mercury and nickel.

The data showed that cereals and vegetables were the major contributors of cadmium, nickel and mercury while water and other beverages were the major source of lead.

Fish, seaweed, eggs, milk and dairy products, fats and oils had the lowest number of heavy metals tested.

Despite the common association between mercury and fish, this analysis showed fish was not an important source of mercury. This was not the case in a 2016 evaluation by the Environmental Working Group (EWG).

The EWG reported the results of testing from 20 women who reportedly ate at least two meals of some type of fish each week.

They measured mercury in the women's hair to establish how much was absorbed from the fish and found that 10% of the women had more than the exposure according to Environmental Protection Agency guidelines for pregnant women.

However, these are not the only foods that increase your exposure to heavy metals. Eat This, Not That reported that a 2021 study revealed that popular baby food brands had also received the recommended limits for arsenic, lead, cadmium and mercury.

Fruit juice can also exceeded levels of lead, and rice is a well-known source of inorganic arsenic that can be absorbed when cultivated in the soil. Rice can grown beds vegetables and root vegetables like carrots and potatoes.

Exposure in childhood can damage the nervous system

Exposure to cadmium and lead in infants and children pose a higher risk to their brain and neurological system than in adults.

Unfortunately, these heavy metals can make their way into the food supply as contaminants. For example, the U.S. Food and Drug Administration set parents on Oct. 30, that after testing food pouches by Manzania, "extremely high concentrations of lead were found in certain fruit and fruit blend baby foods."

Testing was done after four children in North Carolina tested for high lead levels that were linked to the puree.

A 2019 study evaluated children's dietary exposure to lead and cadmium using data from the National Health and Nutrition Examination Study.

The estimated mean lead exposure range was for higher than the California standard, ranging from 1 to 3.4 micrograms per day.

Most of the exposure came from grains, fruit, dairy and mixtures, such as lasagna, soups, hamburgers and pizza.

The estimated mean cadmium exposure was estimated at 0.38 to 0.44 micrograms per kilogram of body weight per day.

Lead exposure is known to slow a child's growth and development and impair learning, hearing and speech.

Damage to the brain and nervous system can also trigger behavior problems and cause lower IQ and a decreased ability to pay attention and poor performance in school.

Exposure at younger ages is more harmful because children's bodies and brains are still developing and growing.

Data show that exposure to cadmium can have an adverse effect on the kidneys, bones, cardiovascular system and lungs. It can also affect the brain and nervous system in children and cause behavioral problems.

In a 2012 study by Harvard researchers, they found children who had the highest levels of cadmium were 2.7 times more likely to have learning disabilities and three times more likely to participate in special education than those with the lowest levels.

"One of the important points of the study is that we found the population of people at risk who had very high exposures. We studied a population representative of the U.S. that we found are [effect] suggests this is occurring at relatively low levels," said Dr. Bruce Lanphear, a professor of children's health and director of environmental health at Harvard.

Use dark chocolate judiciously

The health benefits of eating dark chocolate are well-established. It is the cacao content that makes a difference in terms of benefits to humans.Large amounts of polyphenols, including epicatechin, resveratrol, phenylethylamine and theobromine.

However, as the Consumer Reports studies demonstrated, chocolate with higher levels of cacao also has higher levels of cadmium and lead.

Human data from Lumo Lindy University, presented at the Experimental Biology meeting in April 2022, found that eating dark chocolate with 85% cacao or more helps improve stress levels, inflammation, mood, memory and immune function.

The caveat? It must contain at least 70% cacao and be sweetened with organic cane sugar.

According to Lumo Lindy University:

"While it is well known that cacao is a major source of flavonoids, this is the first time the effect has been studied in human subjects to determine how it can support cognitive, endocrine and cardiovascular health.

"These studies show us that the higher the concentration of cacao, the greater the benefits to cognition, memory, mood, stress hormones and other beneficial effects."

Several studies have also confirmed cacao can benefit your heart, blood vessels, brain and nervous system, and help combat diabetes and other conditions rooted in inflammation.

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As noted in a paper published in the journal Endocrine Medicine and Cellular Longevity:

"Cocoa contains about 380 known chemicals, 10 of which are psychoactive compounds. ...

"Cocoa has more phenolics and higher antioxidant capacity than green tea, black tea, or red wine. ...

"The phenolics from cocoa may thus protect against diseases in which oxidative stress plays a role, such as cardiovascular disease and cancer. They also have antiproliferative, antimutagenic, and chemoprotective effects, in addition to their anticarcinogenic effects."

There is significant evidence that dark chocolate has health benefits, but it's important to realize that these benefits are not transferred to milk chocolate and it's important to judiciously choose your source of dark chocolate.

According to the 2022 Consumer Reports study, the safer choices for dark chocolate include Ghirardelli's Intense Dark Twilight Delight 86% Cacao and Hershey Dark Chocolate 60% cacao. These two bars were the only ones where the cadmium and lead concentrations were less than 50% of the California maximum allowable dose level.

Heavy metal detoxification

As Dr. Frank Shallenberger, author of "Burning Birth Energy: The Breakthrough Method to Reverse Fatigue and Restore Health," and a medical doctor and former physician for nearly five decades, discussed in our 2022 interview, a decrease in mitochondrial function is a hallmark of the aging process and many chronic diseases.

Even asymptomatic people in their 30s can have a significant decline in mitochondrial function, which is indicative of premature aging and future health problems.

Heavy metals toxicity can take a toll on your mitochondrial DNA, and Dr. Shallenberger typically combines chelation therapy with colonics and sauna use. While many people can be infrared saunas, I prefer the infrared sauna for several reasons.

For starters, near-infrared penetrates much deeper into your tissues, releasing toxins.

Importantly, 93% of melatonin is also produced in your mitochondria in response to near-infrared light. Melatonin is a very powerful antioxidant that helps mop up the reactive oxygen species in the mitochondria.

Melatonin also helps increase glutathione, which is a key detoxifying agent. For tips on how to create an electromagnetic field-free space, listen to our interview, as we go into more detail than what I've summarized here.

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